

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CL001471 PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/017654	International filing date (day/month/year) 04/06/2004	(Earliest) Priority Date (day/month/year) 04/06/2003
Applicant AXYS PHARMACEUTICALS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).



- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.



2. **Certain claims were found unsearchable** (See Box II).



3. **Unity of invention is lacking** (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.



- b. none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C311/18 C07C311/54 A61K31/41 A61K31/18 A61K31/38 A61P29/02 A61P25/28 A61P37/02 A61P35/00 A61P9/10 C07D263/56 C07D335/02 A61P17/06					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C A61K A61P					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
A	WO 01/19816 A (BOEHRINGER INGELHEIM PHARMA ; EMMANUEL MICHEL J (US); FRYE LEAH L (US)) 22 March 2001 (2001-03-22) cited in the application abstract; claims 20-28				1, 18
A	WO 03/029200 A (BOEHRINGER INGELHEIM PHARMA) 10 April 2003 (2003-04-10) cited in the application abstract; claims 1-30				1, 18
A	WO 00/51998 A (BOEHRINGER INGELHEIM PHARMA) 8 September 2000 (2000-09-08) Abstract; pages 157-174; claim 1				1, 18
A	EP 0 623 627 A (MITSUBISHI CHEM IND) 9 November 1994 (1994-11-09) the whole document				1, 18
-/-					
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.					
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family					
Date of the actual completion of the international search			Date of mailing of the international search report		
3 November 2004			11/11/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016			Authorized officer Rufet, J		

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/069901 A (BAYLY CHRISTOPHER IAN ; MERCK FROSST CANADA INC (CA); ROBICHAUD JOEL S) 12 September 2002 (2002-09-12) claims 1,19-29 -----	1,18
A	WO 01/19796 A (LINK JOHN O ; ZIPFEL SHEILA (US); AXYS PHARM INC (US); GRAUPE MICHAEL) 22 March 2001 (2001-03-22) claims 1,11-13 -----	1,18

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/017654**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 19, 20
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 19-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0119816	A	22-03-2001	AT 244235 T	15-07-2003
			AU 7081800 A	17-04-2001
			BG 106483 A	31-10-2002
			BR 0013966 A	15-06-2004
			CA 2385130 A1	22-03-2001
			CN 1384830 T	11-12-2002
			CZ 20020844 A3	12-06-2002
			DE 60003702 D1	07-08-2003
			DE 60003702 T2	22-04-2004
			DK 1218372 T3	20-10-2003
			EE 200200132 A	15-12-2003
			EP 1218372 A1	03-07-2002
			ES 2199856 T3	01-03-2004
			HU 0302380 A2	01-03-2004
			JP 2003529546 T	07-10-2003
			NO 20021207 A	12-03-2002
			PT 1218372 T	28-11-2003
			SI 1218372 T1	31-12-2003
			SK 4902002 A3	10-09-2002
			US 2002058809 A1	16-05-2002
			WO 0119816 A1	22-03-2001
			US 2003225271 A1	04-12-2003
			US 2003225270 A1	04-12-2003
			US 6420364 B1	16-07-2002
WO 03029200	A	10-04-2003	CA 2459825 A1	10-04-2003
			EP 1434769 A2	07-07-2004
			WO 03029200 A2	10-04-2003
			US 2004063679 A1	01-04-2004
WO 0051998	A	08-09-2000	CA 2360740 A1	08-09-2000
			EP 1159273 A1	05-12-2001
			JP 2002538151 A	12-11-2002
			US 6608057 B2	19-08-2003
			US 2002091259 A1	11-07-2002
			WO 0051998 A1	08-09-2000
			US 2003158406 A1	21-08-2003
			US 6395897 B1	28-05-2002
EP 0623627	A	09-11-1994	AT 145214 T	15-11-1996
			CA 2121523 A1	29-10-1994
			DE 69400887 D1	19-12-1996
			DE 69400887 T2	22-05-1997
			DK 623627 T3	28-04-1997
			EP 0623627 A1	09-11-1994
			ES 2096370 T3	01-03-1997
			GR 3022524 T3	31-05-1997
			JP 7048340 A	21-02-1995
			US 5506243 A	09-04-1996
WO 02069901	A	12-09-2002	CA 2439415 A1	12-09-2002
			EP 1372655 A2	02-01-2004
			WO 02069901 A2	12-09-2002
			US 2004198982 A1	07-10-2004
WO 0119796	A	22-03-2001	AU 7490900 A	17-04-2001
			AU 7703300 A	17-04-2001
			CA 2384974 A1	22-03-2001

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Information on patent family members

PCT/US2004/017654

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0119796	A	EP 1212302 A1	12-06-2002
		JP 2003509410 T	11-03-2003
		MX PA02002873 A	30-08-2002
		WO 0119808 A1	22-03-2001
		WO 0119796 A1	22-03-2001
		US 2004014796 A1	22-01-2004
		US 6492362 B1	10-12-2002

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